

1-27-00

PTO/SB/05 (4/98)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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JCS44 U.S. PTO
01/24/00

A

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. _____

First Inventor or Application Identifier Thomas N. Koerble

Title Hand Held Saw Mill

Express Mail Label No. EJ 90279/814 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Specification [Total Pages **13**]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. Drawing(s) (35 U.S.C. 113) [Total Sheets **1**]
4. Oath or Declaration [Total Pages]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

***NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

5. Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Copy
 - b. Paper Copy (identical to computer copy)
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. Assignment Papers (cover sheet & document(s))
8. 37 C.F.R. § 3.73(b) Statement Power of
(when there is an assignee) Attorney
9. English Translation Document (if applicable)
10. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS
Citations
11. Preliminary Amendment
12. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. * Small Entity Statement(s) Statement filed in prior application,
(PTO/SB/09-12) Status still proper and desired
14. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
15. Other: _____

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

Continuation Divisional Continuation-in-part (CIP) of prior application No: / _____

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or Correspondence address below

Name	John M. Haegler Koerble				
Address	2065 Greenwood Drive				
City	Owatonna	State	MN	Zip Code	55060
Country	U.S.A.	Telephone	507/455-9015		Fax

Name (Print/Type)	Registration No. (Attorney/Agent)
Signature	Date

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

JC678 U.S. PTO
09/490370

01/24/00

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(b))—INDEPENDENT INVENTOR**

Docket Number (Optional)

Applicant, Patentee, or Identifier: John M. Haegler Koerble

Application or Patent No.: _____

Filed or Issued: _____

Title: Hand Held Saw Mill

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

the specification filed herewith with title as listed above.

the application identified above.

the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

No such person, concern, or organization exists.

Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

Thomas N. Koerble
NAME OF INVENTOR

Thomas N. Koerble
Signature of inventor

01-21-00
Date

John M. Haegler Koerble
NAME OF INVENTOR

John M. Haegler Koerble
Signature of inventor

01-21-00
Date

NAME OF INVENTOR

Signature of inventor

Date

SPECIFICATION

TITLE OF INVENTION

Inventors Thomas Norton Koerble and John M. Haegler Koerble citizens of the United States of America residents of 2043 Creedy Road Beloit, WI 53511 and 2065 Greenwood Drive Owatonna, MN 55060 respectively; hereby present the Hand Held Saw Mill, work piece carrier device.

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable

REFERENCE TO MICROFICHE APPENDIX

Not Applicable

BACKGROUND OF THE INVENTION

Classification 83 (Cutting) and 144 (Woodworking) Paraphrase of description.

The bulk of the relevant prior art was found in U.S. Patent Classifications 83 (Cutting) and 144 (Woodworking). In class 83, the following subclasses were checked: 13, 104, 155, 156, 249, 277, 289, 397, 420, 421, 425, 435, 468.7, 471, 574, 703, 713, 719, 732, 745, 788, 794, 797, 801, 865. In class 144, the following subclasses were checked: 134, 253, 253.2, 287, 289, 312, 370, 371, and 378. For convenience in considering the prior art developed during the search, I have segregated it into the following groups:

A. Band Saws :

1. Saw fixed, work piece movable.
2. Saw movable, work piece fixed.

B. Chain saws with the work piece fixed

C. Circular saw:

1. Saw fixed, work piece movable.
2. Saw movable, work piece fixed.

D. Manual movement of miter, fence, tool, or work piece on a saw table for the controlled cutting of wood.

For your reference, the following patents were developed during the search:

Group Patent Numbers

A1 4702137, 4732184, 4805500

A2 4289180, 4332084, 4519283, 4559858, 4579026, 4841639,
5203247, 5213022, 5819613, 587644

B 4070757, 4235140, 4300428, 4307641, 5784941

C1 4015648, 5813302, 5722474, 5664611, 3934630, 5762121

C2 5441092, 5568756

D 1651846, 4026173, 4155283, 4165668, 4206672, 4206910,
4259887, 4367668, 4481846, 4655445, 4658686, 4699346,
4677887, 4693156, 4732182, 4741387, 4909111,
5016358, 5016508, 5038486, 5109742, 5190271, 5301726,
5443554, 5662019, 5664612, 5823239

None of the prior art fully anticipated the proposed workpiece carrier device. However, as further mentioned below, several of the patents are of interest with respect to certain structural details and features of the device.

The patents in group A1 and A2 use band saws on large scales in different configurations, but they do not appear to suggest:

- use of a home or shop type band saw having a flat work table with guide slot (the prior art shows complex heavy duty equipment for large scale production) ,

- use of a workpiece carrier device which is slidable on a flat work table, the carrier having a guide bar which is guided by a guide slot in the work table (the prior art guidance is provided by rollers and other means) ,
- provision of a carrier device of a transversely movable mounting assembly to which a workpiece is attached by screws, clamps and like fasteners (the prior art teaches the use of various vice arrangements to clamp the workpiece) ,
- a carrier device designed for manual movement into the cutting saw (the prior art shows various complex arrangements by which the workpiece is moved automatically into cutting engagement with the saw) .
- none of these patents provides a solution for the problem of how one individual can cut materials in a precisely predictable manner.

The patents in group B are directed to saw mills which use chain saws as the cutting medium and in which the saw is movable with respect to the log or other fixed workpiece. Again, the structural features of these patents do not allow for the cutting of small size stock with structural and functional features which allow for one man operation, as with of the proposed workpiece carrier device. Thus the B group patents are only of general interest.

The patents in the C1 and C2 groups are of some interest in showing art as it relates to heavy duty saw mill equipment utilizing rotary saw bladed. However, as will be noted from a perusal of these patents, they are all directed to large scale equipment involving clamps and vices to hold the workpiece in cutting position, and appear to lack structure that is similar to that of the proposed workpiece carrier device.

Finally, in group D, the patents are primarily aimed at miters, fences tools, workpiece clamps, and the like as usable with home or shop type saws. In a number of these patents, the work table of the saw is shown as having a guide groove with the miter, tool, or workpiece holder being guided in that groove. Beyond this feature of guidance from a groove in the work table of the saw, the patents do not appear to show or suggest the combination of structure and/or features which allow for the precise and predictable cutting of objects moving against a stationary cutting device, as shown in of the proposed workpiece carrier device.

BRIEF SUMMARY OF THE INVENTION

The proposed work piece carrier device is intended for use with bandsaws and circular saws of the type commonly found in home workshops and commercial manufacturing firms. When employed with a band saw of this type, the proposed workpiece carrier device is useful in making precision cuts through relatively large (i.e. thick) workpiece; such as a log, a block of steel, a block of plastic, or other materials which have properties that allow cutting by the sawing mechanism. The workpiece carrier device includes means for securely holding a large variety of workpieces, which may be of various shapes and sizes. The workpiece carrier device employs a screw-drive which provides the means for manually adjusting the workpiece thus allowing for an infinite range of thickness of the cut material.

The workpiece carrier device enable a single individual to position, hold and maneuver a workpiece on the working surface of a band saw in a way that allows for precise and predictable cutting. Application for the workpiece carrier device include; sawing logs into board lumber, cutting block metals into nominal sizes, cutting plastics and other soft materials into smaller sizes.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 depicts the component parts and their relationship and placement. Part 1 is the base plate. It provides the overall platform of the device. Part 2 and 3 are side retaining members. Attached to each side of the base plate, these parts allow for the movement of the workpiece slide in a direction toward or away from the sawing mechanism. Part 4 is the control arm. Attached to the top rear portion of the base plate, this stationary part allows the action of the drive screw to move the mounting plate and workpiece slide assemble to toward or away from the sawing mechanism. Part 5 is the miter guide bar. Fastened to the bottom of the base plate, the guide bar fits into the band saw's miter groove allowing the workpiece carrier device to run in a path parallel to the cutting mechanism. Part 6 is the work piece slide and is attached to the mounting plate and handles, and seated between the two side retainers. Parts 6, 7, 8 & 9 comprise the holder assembly. Part 7 is the mounting plate, and is attached to the workpiece slide, handles and the drive screw. The mounting plate has a series of apertures sized to receive devices (i.e. screws, clamps, and vises) which allow for the securing of various work pieces to the mounting plate. Parts 8 and 9 are the handles, these are attached to the mounting plate and the workpiece slide. Parts 10, 11, 12 and 13 comprise the drive-screw assemble, and as a whole are attached to the mounting plate and the control arm. It is the actions of the drive- screw assemble, which allows for the precise and predictable movement of the workpiece in a motion toward or away from the cutting mechanism.

DETAILED DESCRIPTION OF THE INVENTION

The proposed work piece carrier device is intended for use with band saws and circular saws of the type commonly found in home workshops and commercial manufacturing firms. In this type of saw, the upper surface of the work table is normally flat, and includes a guide slot sized to slidably receive the guide bar of a miter, such guide slot expending across the table and running generally parallel with the direction of cut of the saw blade. When employed with a band saw of this type, the proposed carrier device is useful in making precision cuts through relatively large (i.e. thick) workpiece; such as logs, blocks of steel, blocks of plastic, or other materials which have properties that allow for cutting by the sawing mechanism. The work piece carrier device includes means for securely holding a large variety of workpieces, which may be of various shapes and sizes. The work piece carrier device employs a drive-screw assemble which provides the means for manually adjusting the work piece to allow an infinite range of thickness' of the cut material. The carrier device includes a generally rectangular base plate adapted for placement and slidable movement on the work table of the saw. Projecting downward from the base plate is a guide bar sized for slidable engagement limiting movement of the base plate on the work table to a direction parallel with the direction of the cut of the saw.

A holder assembly is positioned on the base plate of the carrier device and is comprised of:

- a work piece slide member that is slidable on the base plate in a direction transversely of the direction of cut of the saw.

- a generally rectangular mounting plate extending upwardly from the work piece slide member,
- two manually accessible handles affixed to and rigidly connecting the workpiece slide and the mounting plate,
- a control arm fixed to the base plate,
- a drive-screw treaded through the control arm and rotatably affixed to the mounting plate, and
- a manually operable locking nut for selectively locking the drive-screw against movement.

The mounting plate has a series of apertures sizes to receive devices (i.e. screws, clamps, and vises) or like fastening devices for releasably attaching to the carrier assembly a workpiece to be cut into boards or sheets.

The holder assembly is movable on the base plate transversely of the direction of cut of the saw. Such movement is controlled by the control arm fixed to the base plate and the drive-screw treaded trough the control arm and rotatably affixed to the mounting plate. Manual rotation of the drive-screw relative to the control arm will cause the holder assembly to move on the base plate transversely of the direction of cut of the saw, with a manually operable locking nut being provided on the drive-screw for engagement with the control arm to releasably secure the holder assembly after it has been moved to the desired position.

In readying the carrier device for use, a work piece such as a log, plank, or stock of plastic or metal is first placed on the work piece slide of the holder assembly and against the mounting plate. The work piece is then affixed to the mounting plate by a plurality of short screws or other fasteners, which extend through certain of the screw apertures provided in the mounting plate. The carrier device plus the attached work piece is next placed on the work table of the saw, with the guide bar of the bottom plate sidably positioned in the guide slot of the work table.

The position of the work piece relative to the saw blade is adjusted by manual rotation of the drive-screw, and the screw is then locked into place with the locking nut. By use of the handles of the holder assembly, the carrier plus the work piece can then be moved manually across the work table in a line parallel with the direction of cut of the saw, being guided by the sliding relationship between the guide bar of the base plate and the guide slot of the work table of the saw. This movement will cut a board or stock of the desired thickness from the outer edge of the work piece. After each cut, it is necessary to return the carrier device and the attached work piece to a location spaced ahead of the saw blade and to re-adjust the position of the holder assembly on the base plate to establish the thickness of the board or stock to be cut.

To avoid any damage to or dulling of the teeth of the band saw blade, the screws or fasteners used to attach the log, plank, plastic or metal stock to the mounting plate preferably should be of a length that they extend into the work piece a distance less than the thickness of the last cut from the work piece.

It should be noted that while the above description relates primarily to use of the carrier device with a band saw or circular saw, the carrier also appears to be capable of use with home or shop type saws, cutting or sanding devices. Thus, the search was not limited to devices having application only to band saws.

CLAIMS

1. I, as the inventor of the Hand Held Saw Mill, claim the process of creating a work piece carrier device which is used to securely holding and mechanically position a work piece allowing for manual, one-person operation and movement against a sawing mechanism allowing for precision cutting of smaller boards and stock.
2. I, claim the function of the work piece carrier device of claim 1 to securely hold a work piece to the carrier device through the use of screws, clamps and vice mechanisms.
3. I, claim the function of the work piece carrier device of claim 1 to precisely move the work piece into cutting position through the use of a drive-screw and a slidable holding assemble for precision cutting of desired thickness'
4. I, claim the function of the work piece carrier device of claim 1 having a guiding mechanism consisting of a guide bar attached to its bottom surface intended for slidable engagement and operation on cutting devices of the type having material work surfaces and mitered slots or guides which enable the work piece carrier device to run a predictable path to the cut of the cutting devices blade

ABSTRACT OF THE DISCLOSURE

The proposed invention called the HAND HELD SAW MILL is a work piece carrier device which has the ability to securely hold and move a work piece against a sawing mechanism in a fashion that allows for precise and predictable cutting of the work piece into desired thickness'. Nowhere in the prior art is the use of a device which incorporated a holding assemble for securing a work piece, a mechanical mechanism for moving the work piece to a desired thickness and a guide bar which provides a constant path for the carrier device to follow shown. Nowhere in the prior art is the use of a work piece carrier device depicted for one person operation. It is this combination of features, which allows the device to accomplish the task of precision cutting of materials of any kind while utilizing existing sawing technology on a one-person scale.

+

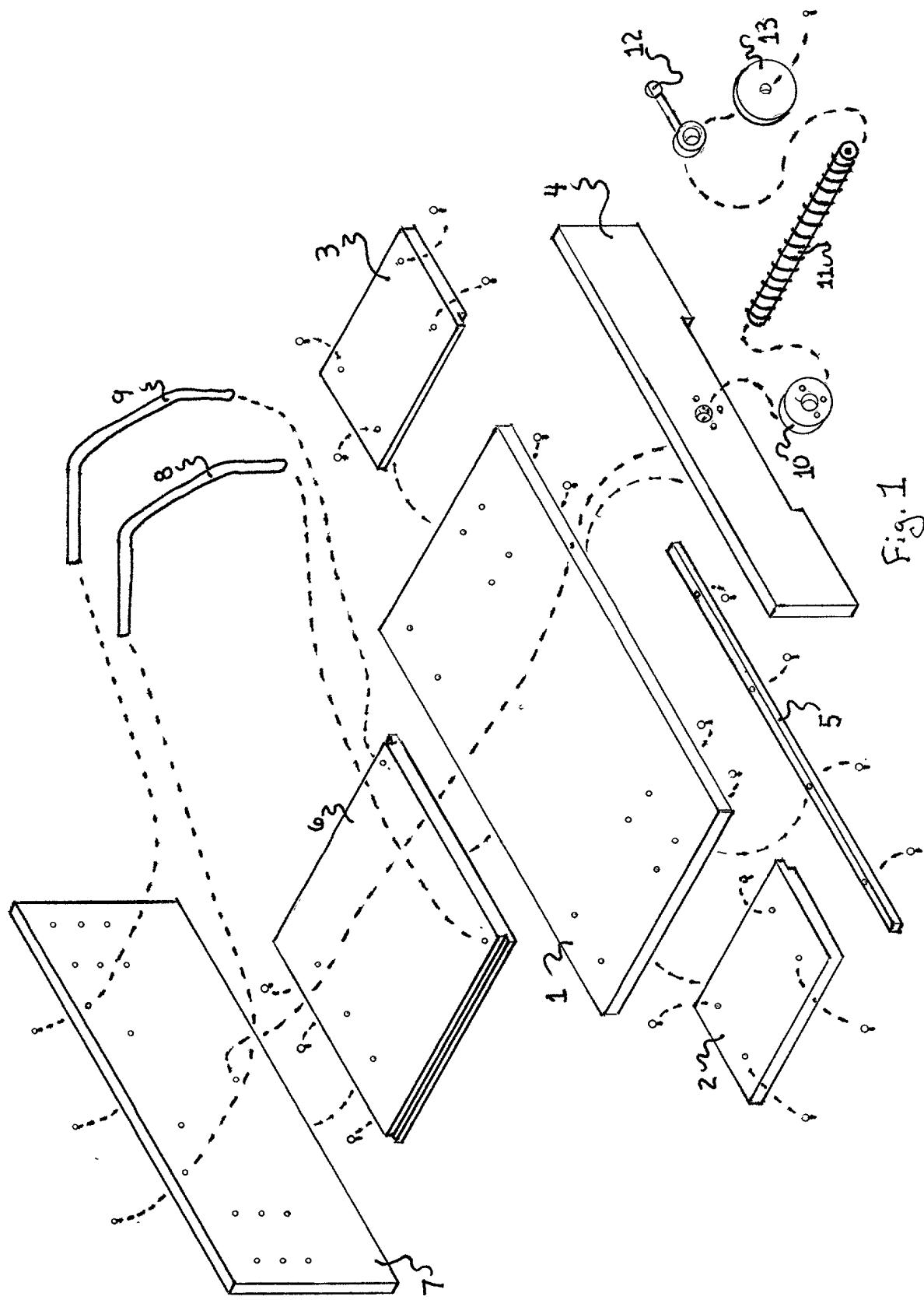


Fig. 1

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted with Initial Filing **OR** Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	
First Named Inventor	Thomas N. Koerble
COMPLETE IF KNOWN	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Hand Held Saw Mill

the specification of which

(Title of the Invention)

is attached hereto
OR

was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	
S/N 60/117,692	01/29/1999	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Customer Number → Place Customer Number Bar Code Label here
OR
 Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number

Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: Customer Number OR Correspondence address below

Name	John M. Haegler Koerble				
Address	2065 Greenwood Drive				
Address					
City	Owatonna	State	MN	ZIP	55060
Country	U.S.A.	Telephone	507-455-9015		Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle if any)			Family Name or Surname				
Thomas Norton			Koerble				
Inventor's Signature	Thomas N. Koerble					Date	01-21-00
Residence: City	Owatonna	State	MN	Country	U.S.A.	Citizenship	U.S.A.
Post Office Address	2043 W. Creedy Road						
Post Office Address							
City	Beloit	State	WI	ZIP	53511	Country	U.S.A

Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Please type a plus sign (+) inside this box → **[+]**

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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet

Page ____ of ____

Name of Additional Joint Inventor, if any:

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

John Michael

Haegler Koerble

Inventor's
Signature

John M.H. Koerble

Date

01-21-00

Residence: City

Owatonna

State

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Country

U.S.A

Citizenship

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Country

U.S.A

Name of Additional Joint Inventor, if any:

A petition has been filed for this unsigned inventor

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